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NEFOMNYASHCHIY, L.B.; VINOKUROVA, Ye.A. [deceased]; YEROFEYEVA, L.V.; TURETSKIY, V.S. Preparation of Urgal coals at the "Zhilevskaia" Experimental and Industrial Coal Preparation Plant, Trudy DVPAN SSSR. Ser. khim. no.6:106-109 62. (MIRA 17:8)



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Agriculture & Plant & Animal Industry. During the days of spring sowing. Moskva, Goskul(tprosvetizdat, 1951.

Monthly List of Russian Accessions, Library of Congress, April, 1952. UNCLASSIFIED.

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Nepon	NYAShchivy, N.P. 86-8-8/22
AUTHOR:	Nepomnyashchiy, N. P., Guards Lt.Col.
TITLE:	Some Night Flight Peculiarities of Air Navigation (Nekotoryye osobennosti samoletovozhdeniya v nochnom polete)
PERIODICAL:	Vestnik Vozdushnogo Flota, 1957, Nr 8, pp. 37-43 (USSR)
ABSTRACT:	In this article the author describes some peculiarities of air navigation in night flights and indicates some methods by which to determine the necessary air navigational elements. According to the author, one of the basic errors, when an unilluminated target is bombed at night with the aid of radar bombsight and corner reflectors and no use is made of homing stations, is that some navigators on the last section of the route before the target depend only on the radar bombsight and neglect all other aids. The atten- tion of such navigators is drawn by the author to the following basic rule: under all circumstances, and partic- ularly at night, the air navigation should be carried out by the combined use of the compass, clock, and radio- technical aids and, in addition to these, the navigational devices should also be used. Due to the so-called "night effect" it becomes difficult to use the radio compass and
Card 1/4	the ground radio range stations. In order to overcome
iwisilence : ;	

86-8-8/22

Some Night Flight Peculiarities of Air Navigation (Cont.)

this effect, Soviet navigators select the ground stations which are located nearest to the flight path and use the PSBN radar bombsight as much as possible, because the PSBN sight is not affected by the night effect. In all such cases when the ground surface is invisible, the homing radio station of the airfield is used as the initial point of departure. To get on the desired flight course, some predetermined pattern flying is done during which the aircraft climbs to the desired altitude. The corrections in the heading of aircraft are made only after the navigator has determined with the aid of all possible aids, the deviation of the aircraft from the desired flight route. In order to simplify the navigator's work in the air, it is suggested that pre-computed magnetic bearings on the aircraft from the radio stations should be plotted on the flight chart prior to the flight. The initial point of bomb run is approached at night and the bombs are usually released with the aid of radar bombsight or by the use of air navigation and the bombing system. With the aid of the PSBN radar bombsight it is possible to carry out orientation and to check the route by determining the position of the

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86-8-8/22

Some Night Flight Peculiarities of Air Navigation (Cont.)

aircraft; it is also possible to determine the main navigational elements (altitude, route angle, drift angle, ground speed, and wind). It is said that the air navigational tasks can be solved by the radar check points which appear on the screen of the radar sight, but only in conjunction with the use of a magnetic compass. For the better use of the radar bombsight the navigator, prior to the flight, must study the flight route, the system of check points with regard to their value as radar check points. For that purpose it is sometimes necessary to carry out radar reconnaissance of the route. With the aid of PSBN the Position of aircraft can be found by several methods: by the check point directly underneath the aircraft or near it; by two bearings on two check points; by two distances to two check points; by the distance to and the bearing on one check point. The last mentioned method is widely used in the Air Force units as a very simple and convenient method that does not require any supplementary computations. The drift angle also can be found by several However, the radar check point, by which the drift angle is determined, must meet the following requirement: the radar check point during its movement across

Card 3/4

86-8-8/22

Some Night Flight Peculiarities of Air Navigation (Cont.)

the screen must not change its configuration and should not disappear from the field of view of the bombsight. For that purpose, "reliable" check points such as bridges, characteristic windings of rivers, lakes, and coast lines should be selected. If such check points are not available on the route line, but are available on one or the other side of the route, the drift angle is determined by the twice taken bearings of one of such check points. Finally, the drift angle can be determined by twice measuring the slant range to the check point that is located near the flight path. Further on the author explains how to find the ground speed: by the flight time required to cover the distance between two check points underneath the aircraft; the time during which a check point passes through two scale rings; a radar check point that is located alongside the flight path. The last method, according to the author, is quite convenient to use, because the ground speed and the drift angle can be determined simultaneously.

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Card 4/4

NEPOMNYASHCHIY, P. T. and GRACHEV, I. I. (Chief Veterinary Surgeon, Krasnodar Trust of Milk and Animal Husbandry State Farms and Candidate of Veterinary Sciences Krasnodar NIVS).

In a Martin California and

Case of mass disease of tetenus in swine

Veterinariya, Vol. 38, No. 8, August 1961, pp. 37

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GRACHEV, I.I., kand. veterin. nauk; NEPOMNYASHCHIY, P.T.

Geses of tetanus mass infection in swine. Veterinariia 38 no.8: 37-38 Ag '61 (MIRA 18:1)

1. Krasnodarskaya nauchno-issledovatel'skaya veterinarnaya stantsiya (for Grachew). 2. Glavnyy veterinarnyy vrach Krasnodarskogo tresta molochno-zhivotnovodcheskikh sovkhozow (for Nepomnyashchiy).

CIA-RDP86-00513R001136610

NEPCHINASHCHIY, S.I. ("oskva); KIR'YAHOV, V.I. (Moskva) Device for hanging maps, posters and illustrations with the help of permanent magnets. Biol. v shkole no.6:78-79 (MIRA 14:11) N-D '61. (Schools-Furniture, equipment, etc.)

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NEPOMNYASHCHIY, S.I.; KIR'YANOV, V.I.

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Hanging up maps and geographical pictures with the help of permanent magnets. Geog. v shkole 25 no.2:58-59 Mr-Ap '62. (MIRA 15:2) (Geography--Audio-visual aids)

NEPCHARASHCHIY, S. I.

"Computation of Thermobimetal for Aerological Equipment," Tr. N. -i. in-ta gidromet. priborostroyeniya, No 3, 1953, pp 42-53

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The bisetal "IS" is used in meteorological equipment, its thermoinertial component made of invar and its thermoactive component of low magnetism steel. Approximate formulas for computation of curvature of the bimetallic plate at its uniform heating applicable to "IS" bimetal, as well as for the bending of its free end, are given. (RZhFiz, No 7, 1955) SO: Sum.No. 713, 9 Nov 55





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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001136610 . SOV/124-58-11-12868 Transaltion from: Referativnyy zhurnal, Mekhanika, 1958, Nr 11, p 141 (USSR) AUTHOR: Nepomnyashchiy, S. I. TITLE: Aerodynamic Conditions of an Aerological-instrument Drop (Aerodinamicheskiye usloviya sbrasyvaniya aerologicheskikh priborov) PERIODICAL: Tr. N.-i. in-ta gidrometeorol. priborostr, 1957, Nr 4, pp 51-64 **ABSTRACT: Bibliographic entry** Card 1/1र्वे को को की जान



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S/112/59/000/012/070/097 9.6100 A052/A001 Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 12, p. 197, # 25291 AUTHOR: Nepomnyashchiy, S.I. TITLE: An Airborne Remote-Controlled Meteorological Station PERIODICAL: Tr. N.-1, in-ta gidrometeorol, proborostr., 1958, No. 6, pp. 39-65 TEXT : The station is intended for the vertical and horizontal atmosphere sounding with the object of quick meteorological servicing the aviation. The advantage of the airborne remote-controlled 'meteorological' Station as compared with the airborne meteorograph is that it-makes possible to obtain the data of sounding directly at the moment of observation and to transmit the results of sounding from, the aircraft by radio. The station is mounted on line or special aircraft used for weather reconnaissance at an air speed of aircraft of 500 km/hour. It makes it possible to measure: a) air pressure within 1,050-250 millibars (up to 10-km altitude) with an accuracy of ± 3 millibars; b) air temperature from 40° to -60° C with an accuracy of $\pm 1^{\circ}$; c) air humidity by dew point within the range from $\pm 35^{\circ}$ Card 1/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86

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An Airborne Remote-Controlled Meteorological Station

to -60° with an accuracy of no lower than $\pm 1^{\circ}$; d) air velocity can be measured within the limits and with an accuracy of the standard velocity indicator YC_{-700} (US-700). The station consists of four measuring units, those of temperature, pressure, humidity and velocity, and performs its functions in combination with the other instruments aircraft is equipped with: the clock, high-altitude ratio altimeter, compass, accelerometer, etc. Furthermore, the station contains a converter $(A\Gamma_{-1}-\Phi)(PAG_{-1}-F)^{28}$ with a $(\Delta\Phi_{-1})(SF_{-1})^{27}$ mesh filter, an air intake and a small turbine for sucking in outside air for humidity measurements. The station has been made as a portable apparatus; all units and indicators of the station are power is 150 w. A description of the principle of operation, design of all four measuring units, results and analysis of flight tests are given. There are 10 illustrations and 11 references.

V.M.G.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA

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"APPROVED FOR RELEASE: Monday, July 31, 2000

Nepomnyashchiy, S. I.

CIA-RDP86-00513R001136610

SOV/ 50-58-6-16/24

AUTHOR:

2422

TITLE: A Comb-Shaped Radiosonde With a Motor (Grebenchatyy radiozond s elektrodvigatelem)

PERIODICAL: Meteorologiya i gidrologiya, 1958, Nr 6, pp. 47-49 (USSR)

A ventilator which is driven by the rising air current is ABSTRACT: used for the turning of the current commutator of the sonde RZ-049. Its work is not reliable since the air becomes thinner with increasing height. This and other shortcomings can be eliminated by the substitution of the ventilator by an motor. Such a motor (Figs 1,2) was worked out under the author's supervision. It is cheap, small, has a low current consumption and works without disturbance at great heights at low temperatures. Its construction and work are described. This motor was mounted on the mentioned radiosonde (Fig 3). The results obtained by the checking of its operation with the motor were the following: the motor can be driven in the case of an autonomous feeding of the common batter; BON-3 as well as in the case of a connection of heater feeding of the radio transmitter, when the mentioned battery is used for this purpose. In the last Card 1/2

A Comb-Shaped Radiosonde With a Motor

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case the current commutator has to be isolated from its gear by means of a connecting bush of "textolite". Checks in a thermo-barochamber of the Central Aerological Laboratory (Tsentral'naya aerologicheskaya laboratoriya = TsAO) showed that the voltage of the channel battery is reduced to 1,9 V at a temperature drop from room temperature to -57° within 90 minutes. This makes possible a normal operation of the battery in feeding the radio sonde. The problem of the feeding of the radiosonde will be decided upon only after the introduction of new, more perfect feeding sources which are at present developed. The influence of the sparking of the motor on the quality of the signal reception was checked and found satisfactory. The flying sonde reached 22,800 m within 60 minutes, at a temperature of -52,40. The audibility of the signals was satisfactory. There are 3 figures.

1. Electric motors (DC)--Design 2. Radiosondes--Applications

Card 2/2

s/112/59/000/016/025/054 A052/A002 3,2100 Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 16, p. 139, # 34500 AUTHOR: Nepomnyashchiy, S. I. An Electric Motor for a Radiosonde TITLE: PERIODICAL: Tr. N.-1. in-ta gidrometeorol. priborostr., 1958, No. 6, pp.111-11 The 3NM-2^B(EPM-2) midget d-c electric motor is described. It is TEXT: intended for the airborne radiosonde and is built with a variable gap between stator and rotor. The work of the motor and the technology of its production are described. Results of laboratory tests, data of the motor and its characteristics are given. There are 4 illustrations. V. Ye. Kh. Translator's note: This is the full translation of the original Russian abstract. Card 1/1



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3(7) AUTHOR:	Nepomnyashchiy, 3. I.	50 V /50-59-1-12/20
TITLE:	A New Airplane Meteorograph for Ver Atmosphere (Novyy samoletnyy meteoro zondirovaniya atmosfery)	tical Sounding of the ograf dlya vertikal'nogo
PERIODICAL:	Meteorologiya i gidrologiya, 1959,	
ABSTRACT: Card 1/2	The described set of instruments co barometer with linear characteristi temperature variations by a bimetal range 110-250 mb; 2. A bimetallic t magnetized steel and invar steel, m +45°60° C; 3. A hygrometer of d measuring range 20-100 % relative a counter (diaphragm instrument) to c moisture measurements, measuring ra- recording is made on sooted paper w clockwork action. The new device was K. N. Manuylov and M. K. Fedorova a skiy institut gidrometeorologiches (Scientific Research Institute for meteorological Apparatuses), and o	ntains: 1. A diaphragm ic and compensation of lic spring; measuring thermometer of poorly measuring range legreased human hair, air moisture; 4. A speed correct the temperature and ange 50-300 km/h. The which runs over a drum with as developed by the Engineers at the Nauchno-issledovatel'- kogo priborostroyeniya the Construction of Hydro-

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NEPOMNYASHCHIY, S.I.

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Notion and tractive force of the free end of a bimetallic plate. Trudy MIIGHP no.8:86-89 '59. (MIRA 13:4) (Inminated metals) (Meteorological instruments)

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NEFOMNYASHCHIY, S. I., Cand Tech Sci -- (diss) "Basic principles of construction of elements of aerological devices with mechanical trans-mission." Leningrad, 1960. 8 pp; (Main Administration of Hydrometeor-ological Services under the Council of Ministers USSR, Main Geophysical Observatory im A. I. Voyeykov); 200 copies; price not given; (KL, 22-60, 138)

"APPROVED FOR RELEASE: Monday, July 31, 2000

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39684 S/263/62/000/002/009/009 1004/1204

 AUTHOR
 Nepomnyashchiy S. I.

 TITLE:
 Air-borne meteorograph A-10 and the results of its tests

PERIODICAL Referativnyy zhurnal, otdel'nyy vypusk. Izmeritel'naya tekhnika, no. 2, 1962, 60, abstract 32.2.450 "Tr. N.-i in-ta gidrometeorol. priborostr.", no. 9, 1960, 47-59

TEXT. A description is given of an air-borne meteorograph A-10 developed in the Scientific Research Institute of hydrometeorogical instrumentation. The meteorograph serves for sounding out of the atmosphere and it is based on transformation of elastic deformations of sensitive elements when the measured value varies, into mechanical displacement of a pointer on a soot-covered band. The meteorograph consists of the following independent measuring units: pressure measuring unit containing membrane boxes with temperature compensation; temperature measuring unit with a bimetallic transducer of a low magnetic steel and invar 0.45 mm thick, bent along an arc suspended by an angle of 270° ; humidity measuring unit in the form of a guitar with 6 clusters of degreased human hair, stretched between two metallic brackets; and a receiver of the velocityof the air-flow in the shaft of the instrument. The last measuring unit containing a sensitive element of thin. walled monometric tube, is of auxiliary character. According to the data concerning the air-flow in the shaft a correction is introduced, which takes into account the additional heating of the temperature — and humidity

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Air-borne meteorograph A-10 and

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transducers. The accuracy of measurement of temperature and humidity during flight is thus enhanced An arrester and an imposite pointer are provided for marking of the initial position of all pointers, switching on the clockwork and marking the beginning of counting. The drum with the smoked tape together with the central axte may perform one full revolution during 2.4 or 6 hours. The housing of the meteorograph has a central axte may perform one full revolution during 2.4 or 6 hours. The housing of the meteorograph has a streamlined form. The meteorograph is a relative-measuring instrument and it measures the air pressure within streamlined form. The meteorograph is a relative-measuring instrument and it measures the air pressure within the accuracy of $\pm 0.5^{\circ}$ C, humidity within the range of 20 to 100% with an accuracy of $\pm 7\%$, and the with an accuracy of $\pm 0.5^{\circ}$ C, humidity within the range of 20 to 100% with an accuracy of the measuring units of the instrument and the results of the following tests are given vibrational and aerodynamic both an the laboratory and in flight. The design of the shock-absorbing mount for fixing it to a frame located on the airplane is also given

(Abstracter's note Complete translation.)

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"APPROVED FOR RELEASE: Monday, July 31, 2000



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NEFONNYASHCHIY, S.I. Calculating the natural vibrations of a pressure gauges. Trudy NIIGMP no.lO:94-98 '61. (Pressure gauges-Vibration)

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ACCESSION NR: AT4038813	\$/2778/63/000/011/0076/0095
AUTHOR: Nepamyeshchiy, S. I. TITLE: The measurement of air	temperature in flight
TOPIC TAGS: meteorology, air	temperature, temperature recording, thermometry
ing out that the next of air, rapidly moving stream of air, medium because of the possible are considered in detail, on	fails to record the true tanget of these errors e errors in the thermometer readings. These errors the basis of mathematical analysis. Among the causes the basis of mathematical analysis. Among the causes the basis of the air layers immediately adjacent
	the nesult of braking (deceleration) and the directly reaching the heat-sensitive element, and the directly reaching the heat-sensitive element, and the serts of the aircraft frame and parts of the casing of arts of the aircraft frame and parts of the casing of heat exchange through contact of the alement with the heat exchange through contact of the alement with due to the evaporation of moisture striking the heat- with clouds, fog. etc.; 5) thermal inertie of the

ACCESSION MR: AT403881	3				
heat-sensitive element; electric current is pas of various sensors desi include models with bra (Venturi tubes), true t of temperature in the c special adapters. The	and through ft. gned for in-fil king (decelerat comparature sens center of an air	ght temperations based on vortex, and	ture measureme rs, universal n the phenomen d temperature flight tests 0	nt. These to temperature on of the re sensors with f these dev	meters meters eduction hout ices ere
analyzed in the article	Be Orige Arte r	las: o ilyu lu Enetîtiit	aldromateorolo	gicheskogo	priboro-
special adapters. The analyzed in the article ASSOCIATION: Neuchno-I stroyeniya, Leningrad Instrument Building) SUBMITTED: GO	a. Orig. art. f Issiedovateľski (Scientific Rose DATE /	las: o ilyu lu Enetîtiit	gidrometeorolo ute of Hydrom 4	gicheskogo	priboro-
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ACCESSION NR: AT4038814	\$/2778/63/000/011/0096/0101	
AUTHOR: Mepomnyashchiy, S. I.	767	
TITLE: Radiosonde errors caused t	by the discreteness of the scale	
pribarastroyeniya. Trudya, no	dovatel'skly institut gldrometeorologichesi 1, 1963, 96-101	
TOPIC TAGS: meteorology, hydrome radiosonde accuracy	teorology, meteorological instrument, radio	
ABSTRACT: In the measuring units ejection sonde A-13 a discrete ra	of the ascension radiosonde type A-22 and ther than a continuous scale is employed.	the

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F A	CEESSION NR: AT4038814	
i t l	eading accuracy and the overall test error (the instrumental error in this case ncludes "non-return of the indicator arrow", which is primarily caused by fric- ion in the transmission gear mechanism and by the error of the sensitive element) t is noted in this connection that the error can be substantially reduced if the teasurement units are calibrated not "by the position of the arrow", but "by the ressings"; that is, if the position of the arrow is noted with maximum possible	
	accuracy when it "crosses" the boundary of two adjacent tracks in this article, the mais in this case correspond to the center of the track. In this article, the muthor has considered a method for calculating the errors of radiosondes (specifi- cally, their pressure, temperature and humidity units) having discrete scales, and has computed the instrumental errors of the A-I3 and A-22 radiosondes caused by the discreteness, the method of calibration and non-return of the arrow. Orig. art. has: 12 formulas.	4
	accuracy when it "crosses" the boundary of two adjacent tracks in this article, the mais in this case correspond to the center of the track. In this article, the muthor has considered a method for calculating the errors of radiosondes (specifi- cally, their pressure, temperature and humidity units) having discrete scales, and has computed the instrumental errors of the A-13 and A-22 radiosondes caused by the discreteness, the method of calibration and non-return of the arrow. Orig.	4
	ASSOCIATION: Nauchno-issledovatel'skiy institut gidrometeorologicheskogo pribo- rostroyeniya,(Leningrad Scientific Research Institute for Hydrometeorological	4



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One method of measuring the speed of an air stream in ventilated columns of meteorological instruments and in ventilation apparatus. Trudy NIIGMP no.14:113-115 '65. (MIRA 18:9)

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ACC NR:	AT7001807 SOURCE CODE: UR/2778/66/000/015/0020/0027
AUTHOR:	Nepomyashchiy, S. I.
ORG: no	one
SOURCE: priboros TOPIC T. fraction ABSTRAC lower a are sum directi device the rad consist special corresp	Radiosonde for sounding the lower layer of the atmosphere Leningrad. Nauchno-issledovatel'skiy institut gidrometeorologicheskogo stroyeniya. Trudy, no. 15, 1966, 20-27 AGS: meteorologic radiosonde, instrument, weather balloons weather forecasting Atta A-75 allocate, A-43 acts framewitte, PKB-15 acts frammitte T: A description is given for an improved radiosonde designed for making tmosphere (to 3000 m) soundings and results of laboratory and field tests marized. This A-58 radiosonde was developed at the NIIGMP under the author's on, and consists of a hydrogen-filled balloon, a barometrically controlled for parachuting the radiosonde package upon reaching the desired altitude, and liosonde itself. The A-58 radiosonde is basically similar to the A-22; it is of pressure, temperature, and humidity sensors, an 80PMKhS power pack and a coding unit rotated by a microelectric motor—each position of the indicator oncing to a given closed circuit combination in the radio transmitter which the data on Morse code. The pressure elements are membranes of pressure boxes BKH-2 type made of N41KhT steel, with the temperature coefficient close to UDC: none
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ACC NR: AT7001807

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zero; the thermometer is a thin bimetallic spring (more sensitive than the one in A-22) protected from solar radiation by a thin removable cylindrical sleeve; the hygrometer is a goldbeater skin membrane. The radiosonce is designed to operate with the A-43, PRB-1.5 and other UKV radiotransmitters in conjunction with "Malakhit" and "Meteor" type stations. The A-58 was designed for measurements (with error limits) in the following ranges: pressure 700-1040 mb (± 2 mb), temperature -40° to 40° (±0.5°), relative humidity 15-100% (±5%). Comparisons were made in Nov-Dec 1963 between pairs of A-58 radiosondes and between A-58 and A-22-IV radiosondes at heights of 500--4000 m. The A-58 gave more detailed temperature and humidity information than the A-22; the average differences in in-flight data between pairs of A-58 radiosondes were: pressure 1.7 mb, temperature 0.3°, humidity 1%; this was less than the differences between the 4.50 and the 4.32 data. Here a 50 million of the the differences between the A-58 and the A-22 data. Use of the A-58 radiosonce in the aerological network was recommended. Orig. art. has: 2 tables and 3 figures. [601 SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 003/ ATD PRESS: 5117

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 L 21829-66 EWT(m) ACC NRI AP6005991 (A) SOURCE CODE: UR/0224/65/000/010/0043/0045
AUTHOR: Tachkova, N. A. (Engineer); Nepomnyashchiy, S. V. (Engineer)
ORG: none
TITLE: Heat conductivity of different types of light concretes
 SOURCE: Byulleten' stroitel'noy tekhniki, no. 10, 1965, 43-45
TOPIC TAGS: heat conductivity, concrete
ABSTRACT: The article is a survey of the properties of the main varieties of light concretes: agloporite concrete, slag concrete (alag pumice concrete), porous clay concrete, perlite concrete, foam and gas concrete, and arbolite made of wood chips and reed cuttings. According to the specifications for light concretes, they are divided into: heat insulating (with a specific weight not more than 800 kg/m ³ , types 5-25, heat conductivity not more than 0.25 kcal/meter-hour-degree); construc- tion-heat insulating (specific weight up to 1400 kg/m ³ , types 25-75, heat conductivity not more than 0.55); and, construction (up to 1800 kg/m ³ , types 50-400). The article contains extended tables listing heat conductivities for the above types of light concretes. Orig. art. has: 2 tables.
SUB CODE: 11/ SUBM DATE: none Card 1/1 nst UDC: 666.972.53

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"APPROVED FOR RELEASE: Monday, July 31, 2000

CRUSH, D.B.; YEFREMOVA, A.M.; NEFOMNYASHCHIY, V.; TORUNTSOVA, L.

[Such people conquer; leading workers in the construction of the Nazarovo State Regional Electric Power Plant] Takie pobediat; o peredovikakh stroitel'stva Nazarovskoi GRES. Krasnoiarsk, Krasnoiarskoe knizhnoe izd-vo, 1961. 89 p. (MIRA 18:5)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP8

CIA-RDP86-00513R001136610(

SHIKIN, S.S., kand.tekhn.nauk; NEPOMNYASHCHIY, V.A., inzh.; FAL'KOVSKIY, N.I., inzh. Operation of grounding systems in salinated soils. Energ. 1 elektrotekh. prom. no.2433-36 Ap-Js '65. (MIRA 18:8)



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ACC NR. AR6023246	SOURCE CODE:	UR/0044/66/000/00	3/V053/V054
WTHOR: Nepomnyashchiy, V. A.			25
EF SOURCE: Sb. Diskretn. analiz. Vyp	. 5. Novosibirsk,		B
ITLE: On algorithms realized by repe	ated applications	of finite automata	
OURCE: Ref. zh. Hatewatika, Abs. 3V1	.86	•	
OPIC TAGS: algorithm, finite automat	on		
RANSLATION: A finite automaton M has et Q, a set of distinguished states P rocess is investigated: at input M a on into α_1 and passes into state q_1 ; in not word α_2 and passes into state q_2 ; tate $(q_1 \in P)$; in this case it is said ated $M(\alpha)$). By \tilde{A} is meant the set of alled a C-set if there exists an autom uch that $\alpha \in U \leftrightarrow M(\alpha)$. It is shown that ets recognized on a Turing machine with ichi (RZhMat, 1963, 6A65). The necession of a set $U \subseteq \tilde{A}$ to be a C-set it is necession	$\subseteq Q$ and an initial word α enters and then M transforms etc.; the process that automaton M is all words in alph maton M with input t the class of C -s th limited expansi sary lemmas are es	I state $q_{4}\in Q$. The f l is transformed by the word α_{1} , start: breaks off if then s applicable to wor abet A. The set U_{1} and output alphabe ets coincides with on (F') in the term tablished and it is	following the automa- ing with q_1 , re exists a rd a (desig- $\subseteq \overline{A}$ is ats $B \supseteq A$. a class of inology of a proved that
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hat t	the cl lere l re fui losed	lass of 5 ² is a actiona with a	ing machine which transforms \widetilde{A} with limited expansion. As f C-sets in the alphabet {1,2} coincides with a class of a class in Grzhegorchik's hierarchy (<i>RZhMat</i> , 1959, 76) of s (E^2 is the least class containing $I_1(\underline{x}, \underline{y}) = x$. $I_2(\underline{x}, \underline{y}) = y$. respect to the operation of substitution and limited rec	F all sets from of primitive-re- $x+1$, $(x+1)\cdot(y+1)$
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CAPECORY	CULTIVATED FLANTS Fodder Grasses and Roots.	
ARS. JOUR.	REF ZHUR - BIOLOGIYA, NO. 4, 1959, No. 15697	
AUTHOR	Trecubanko, M.Ya.; <u>Nepomnyashchiy</u> , V.I.	
TITLE	Productivity of Irrigated Alfalfa in the Con- ditions of the Central Steppe of the Ukraine SSR.	
ORIG FJB.	: Zemledeliye; 1958, No.1, 76-78	
LPC TRACT	In the droughty steppe of the Ukraine SSR, experiments were carried out in 1954-1955 with alfalfs of 1952 sowing in plots of 150 m ² . Observations showed that it was not pro- fitable to raise the irrigation quota for alfalfs above 2000 m ³ . With one and the same quantity of irrigation water, the crop of alfalfs hay was higher with two waterings near mowing, but this is confirmed only with a water quota not less than 1500 m ² /hectare. Hore	
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CARD:	90	• •

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C NRI AR6023993	SOURCE CODE: UR/0372/66/000/003/G023/G0)23
UTHOR: <u>Nepomnyashchiy</u> , V.	<u>A.</u> 	2
ITLE: Algorithms implemented	d through repeated use of finite automata	3
OURCE: Ref. zh. Kibernetika,	Abs. 3G161	
EF SOURCE: Sb. Diskretn. an	aliz. Vyp. 5. Novosibirsk, 1965, 77-82	. •
	algorithm, set theory, Turing machine	
et P⊆Q of distinguishable state	M with the input and output alphabet B, alphabet Q of sets, and initial state $q_0 \in Q$ is considered. The following arrives at the input of M and is processed by the autom	pro-
ommencing with q ₁ , into the wo	converts to the state q_j ; after this M processes the wor rd α_2 and converts to the state q_2 , and so on; the proc state $q_j \in P$; in this case it is maintained that the automa	ess
applicable to the word α (notation of the context of the C . The set U \subseteq A is termed the C	ion: $M(\alpha)$). A denotes the set of all the words in the alp C-set if there exists an automaton M with the input and α). It is shown that the class of C-sets coincides with the	ohabet output
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of sets recognizable by the Turing machine with limited stretching. The necessary lemmas are established and a series of theorems is proved. 4 illustrations. Bibliography of 4 titles. B. ([Translation of abstract]] SUB CODE: 09, 06, 12	12		- đại		······	03		L 05270- ACC NR: A	
	re 2.	emmas are lles. B. G.	ng. The necessary lem Bibliography of 4 titles	with limited stretchined. 4 illustrations.	ring machine v corems is prov	series of th	d and a	establishe	
				$_{i}$ i		6, 12	E: 09, 0	SUB CODE	-
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	124-58-9-9773
Translation (from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 42 (USSR)
AUTHORS:	Puzoshchatov, D.F., Nepomnyashchiy, V.P.
TITLE:	The Control of Centrifugal Blowers by Means of Air Feeding Into the Suction Pipe (Regulirovaniye tsentro'Jezhnykh nasosov podvodom vozdukha na vsasyvayushchuyu trubu)
PERIODICAI	L: Sb. nauchn. tr. Severo-Kavkazsk. gornometallurg. in-t, 1957, Nr 14, pp 242-250
ABSTRACT:	Theoretical reasonings and the results of experimental veri- fication are adduced relative to the control of a centrifugal blower by low-level air feeding into the suction pipe. It is established that such a method of control, firstly, is stable through an output range between 50 and 100 percent of rated output and, secondly, is 10 percent more efficient than control by means of a slide valve. Bibliography: 2 references.
	1. BlowersControl systems 2. Blowers G.A. Varshavskiy Performance
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Device for installing and regulating a valve-type steam distributor in steam engines. Energetik 8 no.9:12-13 S '60. (MIRA 14:9)

(Steam engines--Equipment and supplies)

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Cand Tech Sci -(diss) "Automatic control of the productivity of pumps using underwater air in a suction pipe." Leningrad, 1961. 13 pp; with illustrations; (Ministry of Higher and Secondary Specialist Education RSFSE, Leningrad Order of Lenin and Order of Labor Red Banner Mining Inst imeni G. V. Plekhanov, Chair of Mining Mechanics); number of copies not given; price not given; (KL, 6-61 sup, 221)

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NEPCMNYASHCHIY, V.P.

Efficiency of pumps with air feed to the suction pipe at a lower level than that of the fluid in the reciever, as system of automatic control. Izv. vys. ucheb. zav.; tsvet. met. 4 no.2:134-141 '61. (MIRA 14:6)

1. Severokavkazskiy gornometallurgicheskiy institut, kafedra gornoy mekhaniki.

(Ore dressing--Equipment and supplies)

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Vorkers' group of the Shkiriatov Factory fights for quality in production. Shvein.prom. no.2:18-20 Kr-Ap '60. (MIRA 13:11) (Moscow--Clothing industry-Quality control)

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NEPOMNYASHCHIY, V.S. (g. Moskva)

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Factory wall newspaper in the struggle for the fulfillment of state plans shead of time. Shvein.prom. no.1:29-32 Ja-F '61. (MIRA 14:3)

(Wall newspapers) (Clothing industry)

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Sizing materials based on silicic acid. Tekst. prom. 24 no.7:66-67 Jl '64. (MIRA 17:10)

1. Ispolnyayushchiy obyazannosti nachal'nika khimiko-tekhnologicheskoy laboratorii Barnaul'skogo nauchno-issledovatel'skogo instituta tekstil'noy promyshlennosti.

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POMNYASHCHIY, ye.	176
LATYSHEV, G.D.	
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Trudy (Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy) v. 2. Tashkent, Izd-vo AN UzSSR, 1960. 449 p. Errata slip inserted. 1,500 copies printed.	1
Sponsoring Agency: Akademiya nauk Uzbekskoy SSR.	
Responsible Ed.: S. V. Starodubtsev, Academician, Academy of Sciences Uzbek SSR. Editorial Board: A. A. Abdullayev, Can- didate of Physics and Mathematics; D. M. Abdurasulov, Doctor of Medical Sciences; U. A. Arifov, Academician, Academy of Sciences Uzbek SSR; A. A. Borodulina, Candidate of Biological Sciences; V. N. Ivashev; G. S. Ikramova; A. Ye. Kiv; Ye. H. Lobanov, Candidate of Physics and Mathematics; A. I. Nikolayev, Candidate of Medical Sciences; D. Nishanov, Candidate of Chemica Sciences; A. S. Sadykov, Corresponding Member, Academy of Science USSR, Abademician, Academy of Sciences Uzbek SSR; Yu. N. Talanin	ea l
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	Transactions of the Tashkent (Cont.) SOV/5410	176
	 Candidate of Physics and Mathematics; Ya. Kh. Turakulov, of Biological Sciences. Ed.: R. I. Khamidov; Tech. Ed Eabakhanova. PURFOSE : The publication is intended for scientific worke specialists employed in enterprises where radicactive is and nuclear radiation are used for research in chemical, legical, and technological fields. COVERAGE: This collection of 133 articles represents the for volume of the Transactions of the Tashkent Conference of Feaceful Uses of Atomic Energy. The individual articles with a wide range of problems in the field of nuclear radiation of the kinetics of chemical ready including; production and chemical analysis of radioactive is manufacturing of radioactive preparations; radioactive is for determining the content of elements in the rocks; an analysis of methods for obtaining pure substances. Certain analysis of methods for obtaining pure substances. 	rs and otcpes geo- econd the deal diation, ve tions or the hethods id an
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	instruments used, such as automatic regulators, flowmet level gauges, and high-sensitivity gauga-rolays, are de No personalities are montioned. References follow indi- articles.	ers, Soribed. Vidual	
T	ABLE OF CONTENTS:		
	RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION IN ENGINEERING AND GEOLOGY		
La Nu ar	obanov, Ye. M. [Institut yadermoy fiziki UzSSR - Institut telear Physics AS UzSER]. Application of Radioactive Inst Id Nuclear Radiation in Uzbekistan	te of topes	
173	knar, I. N., and V. A. Yanushkovskiy [Institut fiziki AN R - Institute of Physics AS Latvian SSR]. Problems of th pification of Automatic-Control Apparatus Based on the Us dioactive Isotopes	Laty le le of	
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	•	Borukhov, M. Yu., and A. T. Lebedev [Institute of Nuclear Physic AS UZSSR]. A Unified Radioactive Isodromic Regulator (URIR)	8 29	·
		Borukhov, M. Yu., and B. K. Mal'tsev [Institute of Nuclear Physics AS UZSSR]. Experimental Application of High-Sensi- tivity Gamma-Relay	32	
		Betin, Yu. P., B. I. Verkhovskiy, N. G. Zelevinskaya, and V. V. Yakushin [Fizicheskiy institut Akademii nauk USSR - Physics Institute AS USSR]. Nethods for Increasing the Adeuracy of Measurements of Radioactive Radiation Flux	36	
		Snisarenko, A., Z. Tarasova, <u>Ye. Hepounyashchiy</u> , and V. Novopol'- skiy [Nauchno-issledovatel'skiy institut shinnoy promyshien- nosti-Scientific Research Institute of the Tire Industry]. Determination of the Wear of Car Tires by Means of Isotopes TL ²⁰⁴	43	
		Arkhangel'skiy, A. A., and G. D. Latyshev [Institute of Nuclear	•	
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NEPOMNYASHCHIY, Ye.A., prof. Theory of the screening process. Otog. rud 5 ro.5:27-33 '60. (MIRA 14:8) 1. Leningradksiy Elektrotekhnicheskiy institut im. Ul'yanova (Lenina). (Screens (Mining))

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MEPOMNYASHCHIY, Ye.A., prof.

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Thirteenth Academic Conference of Engineering Students. Izv. LETI no.45:335 %61. (MIRA 16:5)

1. Nauchnyy rukovoditel: Studencheskogo nauchnogo obshchestva Leningradskogo elektrotekhnicheskogo institute im. V.I.Ul!yenova (Lening.).

(Electric engineering-Congresses)

A December

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Kinetics of the separation process. Izv.vys.ucheb.zav.; pishch.tekh. no.3:150-154 462. (MIRA 15:7)			
1. Leningradskiy elektrotekhnicheskiy institut imeni V.I.Ul'yanova (Lenina), kafedra teoreticheskoy mekhaniki. (Separators (Machines)-Dynamics)			
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<u>REFORMMYASHCHIT, Is.A.,</u> doktor fiz.-mat. nauk, prof.; KREMENI, Z.I., insh. Analysis of the processe of charging with abrasives finishing laps based on the theory of random processes. Vest.mashinostr. (MIRA 18:10)

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. 1283-66 EWT(d)/EWT(m)/EPF(c) CCESS ON NR: AP5024107	/EWP(v)/EWP(1)/EWP(k)/EWP(h)/T/EWP(1) RM/DJ UR/0138/65/000/009/0030/0034 678, 063:539, 431
المرا UTHOR: Kragel'skiy, I. V.; Rezni	ikovskiy, M. M. ; Brodskiy, G. I. ; Nepomnyashchiy,
e. <u>F</u> . KX ITLE: <u>Friction-contact</u> fatigue of I	highly elastic materials
OURCE: Kauchuk i rezina, no. 9,	1965, 30-34
OPIC TAGS: rubber, fatigue test,	mechanical fatigue, friction, test instrumentation 19
n <u>e IMASh</u> , with a "Tsiklometr" instru- oth of these instruments and their of the friction-contact fatigue of rubber	of the contact fatigue of rubbers was carried out at ument and at the NIIShP with a "PUPS" instrument. operation are described. To establish the behavior of s, use was made of the elementary model of friction, ich simulates a projection of a rough surface and

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L [1283-66	4
ACCESSION NR: AP5024107 and friction-contact fatigue leads to the conclusion that in fri breaking stress is the tensile stress of the surface layer due data obtained confirm the relationship between the wear resi fatigue resistance. Orig. art. has: 6 figures and 2 formula	B. fut
ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy p ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy p	of Machine Science) 44



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L 44704-66 EWT(1)/EWT(m) EWP(t)/ETI LIP(c) WW/DD/CG ACC NR: AP6031333 AUTHOR: <u>Kirzhnits, D. A.</u> ; <u>Nepomnyashchiy, Yu. A.</u> ORG: <u>Hysics Institute im. P. N. Lebedev, Academy of Sciences SSSR</u> (Fizicheskiy institut Akademii nauk SSSR) TITLE: Instability of Fermi systems and specific heat of <u>liquid He³</u> 7 SOURCE: Zh. eksper. i teoret. fiz. Pis'ma v redaktsiyu. Frilozheniye v. 4, no. 5, 1966, 86-90 TOPIC TAGS: liquid helium, critical point, superfluidity, second order phase transi- tion $\overset{\vee}{}$ ABSTRACT: The authors attempt to explain the disparity between low-temperature data on the <u>specific heat of He²</u> and the predictions of the <u>Fermi-liquid theory</u> by assuming that at some still-unattained temperature T _c the system experiences a second-order phase transition, as a result of which the specific heat as a peak of width AT near T _c . The anomaly of the specific heat of He ³ is explained on the basis of the fact T _c . The long-range attraction forces are capable also of leading to a phase transi- tion of an essentially different nature, with a value of $\Delta T/T_c$ which is assuredly larger. This calls for a rearrangement of the system not in the "particle-particle" channel, as in the case of superfluidity, but in the "particle-heat" the system goes in this case into a unique spatially-inhomogeneous state. Thus the anomaly under discussion is, so to speak, a certain "precursor" of such a transition. The
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	main premise of the authors' derivations is the instability (against smell density variations) of the translation-invariant Green's function, which corresponds in this case not to the minimum energy, but to a stationary point. Since $\Delta T/T_c$ is not small if the proposed explanation is correct, it is necessary to go beyond the framework of the zeroth approximation and to take into account polarization diagrams describing the density fluctuations. Such a calculation is now under way and a detailed exposition of the problems touched upon will be published elsewhere. The authors thank V. L. Ginzburg and the participants of the seminar under his direction for numerous useful.
-	discussions. Orig. art. has: 1 figure and 4 formulas.
	SUB CODE: 20/ SUBM DATE: 23May66/ ORIG REF: 006/ OTH REF: 006
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VERCHENKO, N.T.; NEPOMNYASHCHIY, Yu.I.

Repairing the grate of a sinter-grate kiln in large units. TSement 27 no.4:28-29 J1-Ag '61. (MIRA 14:8)

1. TSementnyy zavod "Pervomayskiy". (Cement kilns--Maintenance and repair)

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NEFORADNYY, D.D.

Zinc content of various organs and blood of rabbits bearing malignant tumors. Ukr. biokhim. zhur. 36 no.2:276-282 '64. (MIRA 17:11)

1. Department of Biochemistry of Ivano-Frankovsk Medical Institute.





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Example: a set of the set of t from kinetic theory, by using kinetic radii. The data are holded in $(F_i/F_i, z)$ diagrams. Rach diagram contains 8 curves corresponding to the 5 values of λ . Addat, curves are obtained for $i = 160^{\circ}$ and $\beta_0 = 0.13$ or $\beta_0 = 0.03$. He-are obtained for $i = 160^{\circ}$ and $\beta_0 = 0.13$ or $\beta_0 = 0.03$. He-are obtained for $i = 160^{\circ}$ and $\beta_0 = 0.13$ or $\beta_0 = 0.03$. He-are obtained for $i = 160^{\circ}$ and $\beta_0 = 0.13$ or $\beta_0 = 0.03$. He-are obtained for λ_1 and λ_2 . The form of $\lambda_1 = 0.16$ depending on z, z, and λ_1 . Hingrams showing the relative fluorescence fiven for N_1 and Callu. Inspection of the curves shows fiven for N_1 and Callu. Inspection of the curves shows in the inter (1) F_1/F_0 increases with z and λ_1 the efficiency of the variance mole. Increasing in the order given alaxy in the list of lowing moles. (2) F_0/F_0 is independent of p_0 , (3) F_0/F_0 de-of lowing moles. (2) F_0/F_0 is independent of p_0 , (3) F_0/F_0 de-order when t increases with z = 2537, and 2532 and view verse for the other λ_1 (4) γ increases with z and tends to a

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NEPORENT, B. S.

"The Hydrogen Bond in the Propionic Acid Peroxide and Its Kinetic Effect," Dokl. AN SSSR, 70, No.6, 1950

Inst. Chem. Physics, AS USSR

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NEPORENT, B. S. PA 165T94 USSR/Physics - Fluorescence 1 May 50 "Influence of External Conditions Upon Absorption and Fluorescence in Vapors of Aromatic Compounds," B. S. Neporent "Dok Ak Nauk SSSR" Vol LXXII, No 1, pp 35-33 Discusses influence of foreign gases (HH₂, C_5H_{12} , CO_2 , N_2 , H_2 , He) upon intensity F of fluorescence for various pressures (0.13-0.53 mm) on vapors of betanaphthylamine. Some gases decrease, and others increase fluorescence F (e.g., C5H12 and CO2, amount depending on pressure). Submitted 20 Feb 50 by Acad A. M. Terenin. 165194

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 Monthly List of Russian Accessions, Library of Congress, <u>April</u> 1953, Uncl. 	2.	NEPORENT, B. S. USSR (600) Luminescence Luminescence of vapors of complex aromatic compounds. Lzv AN SSSR Ser fiz. No. 5 1951
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.		
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1801100 1801100 Feb 51 2 Erand fluorescence and abscrption spectra of 2 dis-misophthalimides in soln and gascous state. Neporent "Zhur Eksper 1 Teoret Fiz" Vol XXI, No 2, PP 172-188 compd mol into 2 groups according to interaction of Teb finds spectral width of each substance depends exproportional to square of this frequency. Frevious clusively on some mean transfent frequency and is division of multistomic mol is subdivided by seps "Problem of Correlation of Absorption and Emission and Origin of Wide Band Spectra of Compound Moleelectron states and self-oscillations. - LILON USSR/Physics - Fluorescence, Epectra, Molecular (Contd) OSGR/Physics - Filmyrestence, Bl Molecular . cules," B. S. Neporent 3 3 .E THEFOTEN •S 1801100

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CIA-RDP86-00513R001136610

NEPORENT, B.S. <u>Ylbration energy and limitescence of complex nolecules.</u> T. B. S. <u>Determent</u> Uspehlei Fiz. Nack 43, 389-402 (1951).—The distribution of energy in and the spectra of a complex org. mol., the dependence of the efficiency and the duration of fluore-cence on the vibration energy, and other-features of the org. mol. are reviewed. Most of the work was done on colors because fluore-cence or the in more are features of the org. noi. are reviewed. Most of the work was done on solns, because fluorescence expits, in graces are difficult to make at const, pressure; however the investiga-tion of the fluorescence of vapors, whenever they do not decomp, on evapar, gives the possibility of studying many aspects impossible to obtain in soln. Complex mols, are mols, in which the prohability of energy redistribution is greater than the reciprocal of the lifetime of the excited state. The spectra are line spectra in simple mols, diffused in semi-complex, and continuous in complex mols. Emission in semi-complex, and continuous in complex mols. Emis-in semi-complex, and continuous in complex mols. Emis-sion and absorption spectra have mirror symmetry. The quantum output is larger in soln, than in vapors. The life-time of the excited state and the quenching by other gases are described as well as the increase in fluorescence by foreign gases and the stabilization of fluorescence by colli-sions by transfer of the vibration energy, characterized by an "accommodation coeff." (cf. C.A. 45, 55184). II. B. J. Stephatry. Ibid. 402-25.—A theory of localization of the widfailon energy on certain degrees of freedom is developed. Owing to a continuous change in localization and a redistri-bution of vibration energy of the mol. on different degrees of freedom, continuous spectra are formed. Thus classical statistics can be applied to such nois, which can have their own specific temp. From system considerations the lifetime and the decay time of fluorescence can be called both for vapors and for solns. The quantum output and the temp quenching of fluorescence are also derived funct the distribu-tion fluorescence are also derived funct has the idea-tion. For solns. The quantum output and the temp quenching of fluorescence are also derived funct the distribu-tion fluorescence are also derived funct the distribu-tion fluorescence are also derived functions. S. Bakener. S. Pakewer.

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USSR/Physics -	Spectral analysis
Card 1/1	Pub. 43 - 26/62
Authors	Neporent, B. S.; Borlsevich, N. A.; Klochkov, V. P. and Motovilov, O. A.
Title 1	Effect of surrounding medium and supply of oscillation energy of
	molecules on continuous spectra of organ. compounds

DBER/Physic	s - Spectral analysis
Card 1/1	• Pub. 22 - 7/41
Aution	Neporent, B. S., and Inyushin, A. I.
Title.	* Phosphorescence and fluorescence spectra of phthalimide and its derivatives in frozen solutions
Periodical	1 Dok. AN SSSR 98/2, 197-200, Sep 11, 1954
Abstract	Experimental studies of fluorescence and phosphorescence spectra of phthalimide and its derivatives in vaporous and liquid states at vari- ous temperatures are described. Five references (1951-1953). Graphs.
Institution	• ••
Presented by	Acad. A. N. Terenin, April 19, 1954

NEPRORENT, B. S., Prof. STEPANOV, B. I., Mem. of the Belorussian Acad. of Sci.

"Luminescence Spectra of Complex Molecules" paper presented at the Conference on Molecular Luminescence and Luminescent Analysis, MINSK from 20 to 25 June 1955.

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